

Era Aviation, Inc.

PROCESS SPECIFICATION

ERA AVIATION INC.

GULF COAST DIVISION LAKE CHARLES, LOUISIANA

PROCESS SPECIFICATION NO. 4011

APPLICATION OF EXPANDED FOILS TO FIBERGLASS REINFORCED PLASTIC

Prepared By Jove / / Date: 170CT90

Approved By

Quality Control Jane //eup/

up/n/Date: 170CT90

Engineering: 10/17/2

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LOG OF REVISIONS

REVISION	BY DATE	PAGES AFFECTED	REVISION DESCRIPTION	APPROVED DATE
IR		ALL	INITIAL RELEASE	7. Schward 10/17/20

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	Manufacture de la constant de la con	(4.4 WP			
SCOPE					
	tion outlines the riberglass reinforc			tion of a expanded foils on the	
CONFORMA'	<u> </u>				
This specifica	tion does not conf	form to any exist	ing gove	rment specification.	
CONFLICTS					
In the event of drawing (s) sh		engineering draw	ving (s) a	nd this specification, the	
ERA PROCESS SPECIFICATION					

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MATERIALS	NAME	MANUFACTURER
RESIN	Derakane 8084	Dow Chemicals Midland, MI.
MEKP Catalyst	Hi-Point 90	Witco Chemical Richmond, CA.
UV Inhibitor	UV-9	Industrial Chemicals Atlanta, GA.
Pigment	CoPlas pigment	CoPlas Fort Smith, AR.
	Spartan pigment	Spartan Pigments Houston, TX.
Gel Coat	Gel Coay	CoPlas Fort Smith, AR.
Expanded Metal Foil	5CU 7-125 Flattened & Annealed	Delker Corp. Branford, CT.
Paraffinated Styrene	TF-100	Industrial Chemicals Atlanta, GA.
Styrene Monomer	Styrene Monomer	Huntsman Chemical Baton Rouge, LA.

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APP	LICATION	N OF EXPANDE	D FOIL		
1.	Sand the	e area with 40 g	rit DA paper w	here the c	copper screen is to be installed.
2.					sanded and coat it with a hot coat nt. Allow to cure until hard.
3.	Apply a until ha		oat containing	UV inhibi	tor and wax styrene. Allow to cure
4.	Apply a cure unt		l-coat containi	ng UV inh	nibitor and wax styrene. Allow to
5.	Sand the		rit DA paper u	ntil the en	tire top of the copper screen can
6.	Final fir	nish will be in ac	cordance with	preparatio	ons for painting the item.

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INSPECTION

It is the purpose of the inspection to verify that each part has been fabricated in accordance with and meets the requirements of this specification.

RESPONSIBILITIES:

IT IS THE RESPONSIBILITY OF THE FABRICATOR TO MAKE AVAILABLE TO ERA HELICOPTER OR ITS AUTHORIZED REPRESENTATIVE ANY OF ALL THE FOLLOWING:

RECORDS:

Records pertaining to the part(s) being purchased shall be supplied when requested. These may include:

Materials specifications
Equipment drawings or mold jig
Materials test results
Dimensional verification reports
Rework and repair reports

MATERIALS:

Raw material used shall be virgin materials and shall be visually free of contaminants.

FABRICATED PARTS:

The part to be inspected shall be properly located and positioned, and shall be in condition to permit a thorough inspection. Reasonable means shall be provided to permit the inspector to visually examine the entire non skid surface of the part.

Allowable defects are listed on page 5.

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TEST OF FINISHED PARTS:

The following basic tests shall be included as a minimum in the acceptance inspection:

Surface Cure Test - A rag and an acetone squeeze bottle with acetone shall be provided to determine if the resin has fully cured. The procedure for this is to rub a few drops of acetone on the surface and check for tackiness after the acetone has evaporated. Persistant tackiness indicates an incomplete cure.

Dimensions - The inspector shall be provided with copies of all approved drawings or patterns.

Inspection - Expanded metal foil should be partially exposed with no breaks or voids in foil.

APPLICABLE DOCUMENTS:

ASTM Standards

C 581-74 - Test Method for Chemical Resistance of Thermosetting Resins used in Glass Fiber Reinforced Structures

D 638-77a - Test Method For Tensile Properties of Plastics

D 883-78a - Definitions of Terms Relating to Plastics

ALLOWABLE DEFECTS

DefectAllowable for SurfaceExposed scuffed areaNoneNon cured areasNoneVoids or broken strands in metal foilNone